SONY
make.believe

KDL-46EX400/H

46 inch[1] Professional TV

Key Features

- Full HD 1080p Resolution
- Ambient Sensor adjusts color based on room light
- LightSensor™ adjusts backlight with room light
- BRAVIA Engine™ 2 fully digital video processor
- USB port for photos, music & video playback
- BRAVIA® Sync™ controls compatible devices w/ one remote[1]
- 7 HD Inputs (4 HDMI, 2 Component, 1 PC)
- RS-232 control

Key Technologies

The BRAVIA Pro The BRAVIA Pro models are an ideal entry-level product for public display and digital signage in restaurants, sports bars, stadiums, arenas, corporate conference rooms, and many other applications. Plus, our BRAVIA Pro models come with our extensive professional support programs including 2 year parts and labor warranty, Priority Business Technical support, and much more. Visit www.sony.com/displays for more product and warranty information

Full HD 1080p Resolution Experience Full HD 1080p picture quality, the highest at-home resolution, and take full advantage of HD sources like a Blu-ray Disc™ Player or PlayStation®3 gaming console via the 16:9 wide screen panel (1920 x 1080).[2]

Ambient Sensor Get a natural looking picture whether you are watching movies late at night or playing video games during the day with an Ambient Sensor that automatically adjusts the picture color based on a room's lighting.

LightSensor™ Technology Automatically increase or decrease the level of brightness of your TV's backlight based on a room's lighting conditions with the integrated LightSensor™ technology. Dim the lights to watch a movie and the sensor dims the backlight, which also helps reduce unnecessary power consumption.

BRAVIA Engine™ 2 Enjoy sharp, vibrant, life-like images while optimizing color & contrast and significantly reducing noise with the BRAVIA Engine™ 2 fully digital processor.

USB Input Share your photos on the big screen or listen to your favorite music. Simply connect your digital camera, USB-enabled MP3 player, or USB storage device directly to your HDTV's USB input.

BRAVIA® Sync™ Compatible Conveniently operate and control other BRAVIA® Sync™ compatible devices - including BRAVIA® HDTVs, Blu-ray Disc™ Players, surround sound systems, Handycam® camcorders and Cyber-shot® digital still cameras, all with one remote control.[3]

7 HD Inputs Get versatile HD connection options with seven HD inputs, including four HDMI™ inputs to connect a Blu-ray Disc™ player, PlayStation®3 gaming console or any other HDMI-capable equipment. Two HD component inputs provide added HD-capable connectivity in addition a PC input (HD-15 pin) lets you use your HDTV as a computer monitor.[4]

Full HD 1080p

Ambient Sensor

BRAVIA ENGINE

BRAVIA Sync

BRAVIA

KDL-46EX400/H

46 inch[1] Professional TV

Features

General

Closed Captions (CC): Analog, Digital
Finish (Surface Color): PianoBlack
HDMI™ InstaPort: Yes
Start Up Sony Logo Display: Yes

Display

Backlight Type: CCFL
Display Device: LCD

Video

Video Processing: BRAVIA Engine 2™ Technology
CineMotion® Reverse 3:2 Pulldown Technology: Yes
Wide Mode: Normal, Zoom, Wide Zoom, Full (Full1-2 for PC)
3D Comb Filter: Yes
MPEG Noise Reduction: Yes
Auto Wide: Yes
4:3 Default: Yes
24p True Cinema™ Technology: Yes
Picture Mode: Vivid, Standard, Custom
Advanced Contrast Enhancer (ACE): Yes
Cinema Mode: Yes
Live Color™ Technology: Yes

Audio

Auto SAP: 20FM/10AM
Auto Mute (on no signal): Yes
Steady Sound® Automatic Volume Control: Yes
Audio Out: Fixed
Stereo System: MTS
Dolby®: Dolby® Digital
Alternate Audio (Digital): yes
Surround Effect: Cinema, Music, Live Sports, Game
5.1 Channel Audio Out: Yes
Sound Mode: Dynamic, Standard, Clear Voice, Custom
5.1ch Through Out (Handycam): Yes
Clear Voice: Yes
Invisible Speaker (w/Sound Elevation): Yes

Convenience

Channel Jump: Yes
Multiple Language Display: English, French, Spanish
Info Banner: PSIP, XDS
Sleep Timer: Yes
Input Skip: Manual
Channel Surf: Yes
Channel Block (with password): Yes
Edit Channel Labels: Yes
Label Inputs: Yes
ID-1 Detection: Yes
USB Application(s): Photo Viewer (jpeg), Music Player (mp3), Video Player (mpeg1), Video Player (mpeg2 TS)
Theatre Mode (Theatre Button): Yes
Show/Hide Channels: Yes
Auto Shut-off: Yes
BRAVIA® Sync™ : Yes
Parental Control: Yes
BRAVIA® Sync™ Menu Button: Yes (on Remote Control)
On-Screen Display for External Input: Yes
PIP (Picture in Picture): PC Input(HD15/HDMI) & TV Channel/CVBS/(HDMI)/(Component)
Channel Labels: Yes
Program Block: Yes
Control for HDMI™ (HDMI™ CEC): Yes
Short Banner: Yes
Auto Photo Mode: via USB
Picture Adjustments Lock: Yes
White Balance: RGB Gain/Bias
Auto Picture Setting w/HDMI™ : Cinema, Photo, Graphics, Game
Scene Select: Auto, Cinema, Sports, Photo, Music, Game, Graphics, General
Favorites (Simple UI): Yes
Picture Frame Mode: Yes
USB Player: Yes

Sensing

Ambient Sensor: Yes

Specifications

Display

Viewing Angle (Right/Left): 178(89/89)
Viewing Angle (Up/Down): 178(89/89)
Dynamic Contrast Ratio: 140,000:1
Screen Size (measured diagonally): 46"
Display Resolution: Full HD 1080(1920x1080)
Aspect Ratio: 16:9
Refresh Rate: 60Hz

TV System

Tuner (Cable): QAM
Tuner (Terrestrial): ATSC™ / NTSC
Channel Coverage: VHF: 2-13ch
UHF: 14-69ch
CATV (analog): 1-135ch
CATV (digital) : 1-135ch
TV System (Analog): M
Number of Tuners (Analog): 1(Hybrid)
Number of Tuners (Digital): 1(Hybrid)
TV System (Digital): ATSC
Color System: NTSC

Video

Video Signal: 1080/60p (HDMI™ / COMPONENT), 1080/60i, 1080/24p (HDMI™ ONLY), 720/60p, 480/60p, 480/60i

Audio

Audio Power Output: 20W (10W x 2)
Speakers (Total): 2
Speaker Configuration: 2

Inputs and Outputs

Component Video (Y/Pb/Pr) Input(s): 2 (Rear) (1 fixed/1 selectable)
Composite Video Input(s): 2 (1 Side/1 Rear)
Digital Audio Output(s): Optical Digital Output - 1 (Rear)
RF Connection Input(s): 1 (Rear)
Analog Audio Input(s) (Total): 4 (1 Side / 3 Rear)
Audio Out: 1(Rear)
HDMI™ Connection(s) (Total): 4 (2 Side/2 Rear)
PC In (D-Sub) + Audio In (Stereo Mini): 1(Rear) (common with HDMI 1) (stereo Mini)
USB 2.0: 1(Side)
HDMI™ PC Input: Yes
AC Power Input: 1 (Rear) AC Socket
RS232 Control: 9-pin, D-sub

Power

Power Consumption (in Standby): Less than 0.23W (AC120V), Less than 0.4W (AC240V)
Power Requirements (voltage): AC 120V
Power Requirements (frequency): 60Hz
Power Consumption (in Operation) max.: 245W Max

Regulation And Standards Compliance

VESA® Hole Spacing Compatible: Yes
VESA® Hole Pitch: 300x300(46")

Service and Warranty Information

Limited Warranty Term: 2 Years Parts, Labor and Panel WarrantyParts

Energy Saving & Efficiency

Power Saving Modes: Yes
Eco Settings: Yes
Dynamic Backlight Control: Yes
Backlight Off Mode: Yes
Estimated Annual Energy Consumption (kWh): 215.0 kWh
Idle TV Standby: Yes
Power Consumption (On Mode) for Energy Star: 116.8W
Power Consumption (Standby Mode) for Energy Star: 0.23W

Recycled & Recyclable Materials

Product Materials: Recycled Carton (more than 40%)
Packaging Materials: Recycled Carton (more than 20%)
Printed Materials: FSC Certified

Weights and Measurements

Weight (Approx.): 45 lbs. (20.4kg) with pedestal; 39.9 lbs. (18.1kg) without pedestal
Dimensions (Approx.): 44 3/8 x 28 x 11 5/8" (1127 x 711 x 294mm) with pedestal; 44 3/8 x 26 5/8 x 4 1/8" (1127 x 674 x 102mm) without pedestal

Supplied Accessories

Remote Control (RM-YD035)
Batteries (Type AAA x2)
AC Power Cord (attached)
Table Top Stand (separate, pre-assembled)

Optional Accessories

Please visit www.sony.com/displays

1. Viewable area, measured diagonally.
2. Works with other BRAVIA® Sync or Theatre Sync™ labeled home audio/video products when connected via HDMI™ interface.
3. HDMI cable required, sold separately.
4. Devices must be connected via HDMI™ interface.
5. Limited to resolutions supported by both the PC and the Sony TV. See Sony TV user's manual and PC documentation for supported resolutions.

© 2010 Sony Electronics Inc. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Sony, BRAVIA, Sync, Motionflow, BRAVIA Engine, LightSensor, Cyber-shot, 24p True Cinema, Xross Media Bar, make.believe, and the Sony logo, Full HD 1080p logo and BRAVIA logo are trademarks of Sony. PlayStation is a trademark of Sony Computer Entertainment. Blu-ray Disc is a trademark. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks of HDMI Licensing LLC. All other trademarks are trademarks of their respective owners. Features and specifications are subject to change without notice. Non-metric weights and measures are approximate and may vary.